

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 106387

Received at London Office 20 SEP 1938

11/27/38

Writing Report 15 Sept 38 When handed in at Local Office 20 SEP 1938 Port of London
 Survey held at Bedford Date, First Survey 19 January 1938 Last Survey 16 Sept 1938
 Number of Visits 21

on the Single Motor Screw vessel "SOBIESKI"
 Newcastle

By whom built Swan Hunter & Wigham Richardson Yard No. 1572 When built 1939-5
 Port belonging to

Engines made at Bedford By whom made W.H. Allen Sons Ltd Contract No. K/68460 When made 1938
 Motors made at do By whom made do Contract No. When made

Sets 3 Engine Brake Horse Power 660 Nom. Horse Power as per Rule 458 Total Capacity of Generators 450 Kilowatts.

ENGINES, &c.—Type of Engines Heavy oil 2 or 4 stroke cycle 4 Single or double acting single
 Working pressure in cylinders 650 Diameter of cylinders 410 Z Length of stroke 600 Z No. of cylinders 6 No. of cranks 6

Bearings, adjacent to the Crank, measured from inner edge to inner edge 530 Z Is there a bearing between each crank yes
 Revolutions per minute 275 Flywheel dia. 2040 Z Weight 12600 lb Means of ignition Compression Kind of fuel used Diesel oil

Shaft, dia. of journals as per Rule 250 Z Crank pin dia. 250 Z Crank Webs Mid. length breadth 360 Z Thickness parallel to axis
 as fitted 250 Z Mid. length thickness 135 Z shrunk Thickness around eyehole

Lead Shaft, diameter as per Rule crank shaft Intermediate Shafts, diameter as per Rule
 as fitted Thickness of cylinder liners 25 Z

Worm or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication Forced.
 cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

g Water Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 Lubricating Oil Pumps, No. and size

Compressors, No. No. of stages Diameters Stroke Driven by
 Suctioning Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Have they been made under Survey State No. of Report or Certificate
 receiver, which can be isolated, fitted with a safety valve as per Rule

internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
 a drain arrangement fitted at the lowest part of each receiver

Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness
 ss, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ng Air Receivers, No. 3 Total cubic capacity 11.2 cu ft each Internal diameter 1'-11 7/8" thickness 5/16"
 ss, lap welded or riveted longitudinal joint Solid drawn Material Steel Range of tensile strength 26-30 Working pressure by Rules 300 lb

TRIC GENERATORS:—Type Open type
 Voltage of supply 220 volts Full Load Current 2045 Amperes Direct or Alternating Current Direct

Generating current system, state the periodicity Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off yes
 Generators, are they compounded as per rule yes is an adjustable regulating resistance fitted in series with each

field yes Are all terminals accessible, clearly marked, and furnished with sockets yes
 so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes

generators are under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements
 generators are 100 kw. or over have they been built and tested under survey yes

V.S. Are approved plans forwarded herewith for Shafting Receivers Separate Tanks
 (If not, state date of approval)

BE GEAR One cylinder liner, one cylinder cover with studs & nuts. 6 fuel
 injection valves with rods, 18 needle valves & nozzles, 6 exhaust valves, 6 inlet
 valves spindles & collars, 4 roller spin, 2 starting valves complete, 1 safety
 valve complete, 1 piston complete with rings, 3 sets of piston rings, 1 gudgeon
 pin, 2 gudgeon bushes, 2 bottom end bearings, 4 bottom end bolts & nuts.
 main bearing, 2 studs & nuts for main bearing, 3 fuel pump
 plungers, spig and valves; many other smaller items.

The foregoing is a correct description,

W.H. ALLEN, SONS & Co., Ltd. Manufacturer. H.H. Clarke.



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Dates of Survey while building
 During progress of work in shops - - - 1938 Jan 19. 31. 1. March 11. 29. April 15. 13. 25. May 4. 11. 22. 30.
 During erection on board vessel - - - June 15. 17. 28 July 4. 25. 26. Aug. 17. 26. Sept 16. 19. 27.
 Total No. of visits 26

Dates of Examination of principal parts—Cylinder 1.4.38 5.4.38
 Connecting rods 20.4.38 Crank and Flywheel shafts 20.4.38
 Crank and Flywheel shafts, Material steel
 Intermediate shafts, Material ✓
 Identification marks on Air Receivers E. 1196 W.P. 3004 HAG 17.8.38 B1208 W.P. 3004 HAG 17.8.38

Is this machinery duplicate of a previous case No If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) The generators have been constructed under Special Survey in accordance with the requirements of the Rules and approved plans; The steel was made at Works approved by the Committee, the workmanship is good and on completion the generators were tested on the bench under full & overload conditions & found satisfactory. They have now been forwarded to Newcastle for fitting on board the vessel.

These 3. Auxiliary Oil Engine Dynamo Sets have been satisfactorily installed on board the T.M.V. SOBIESKI SHOR Yard No 1572.

Available at Newcastle on 25/5/39.

The amount of Fee ... £ 47-5-0

Travelling Expenses (if any) £ 6:17:2

When applied for, 20 SEP 1938

When received, 2. 11. 1938

H. Garnett
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

WED 31 MAY 1939

Assigned

See Nwc. JE. 97503



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